SuccessMaker Internet System Requirements

Windows® and Macintosh®

NCS Learn™

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Contents

Introduction 1
Using This Guide 1

System Recommendations 2
Windows-Based Student Station 2
Windows-Based Teacher/Administrator Station 3
Macintosh Student Station 4
Macintosh Teacher/Administrator Station 5
Intel-Based Content Server 6

Network Capacities 7
Windows NT Server 4.0 Network with Windows and/or Macintosh Clients 7
Windows 2000 Server Network with Windows and/or Macintosh Clients 7
Novell NetWare 4x Network with All-Windows Clients 7
Novell NetWare 5x Network with All-Windows Clients 7

Internet Connection Speeds 8
WAN-Link Configuration 8
Standalone Configuration (Single Station) 8

Introduction

NCS Learn™ offers comprehensive, interactive educational software, providing thousands of hours of customized instruction for the pre-kindergarten to adult learner. NCS Learn continues to expand and enhance its multimedia offerings in order to improve student achievement and enhance classroom management.

SuccessMaker Internet™ is a product/service that focuses on reading and math curriculum for the Pre-K–8 education sector. The architecture of the product is a hybrid one, with an Internet-enabled management system and a curriculum that is accessed locally or from a networked content server. This architecture allows NCS Learn to take advantage of the anytime, anywhere connectivity provided by the Internet while maintaining the reliability of local content delivery.

Our award-winning curriculum has been helping educators and learners achieve success in schools for the last 25 years. With its Internet-enabled version of the product, NCS Learn extends education's reach beyond traditional accessibility barriers. SuccessMaker Internet stores all management system and reporting data remotely at an NCS Learn site. Teacher, student, and parent users can access the management system, which lies at the core of the product, from any PC with an Internet connection. This anytime, anywhere accessibility allows teachers to create assignments and monitor students' progress from school or home, makes homework available to students wherever they are, and lets parents log onto the system from the home or office to check on their child's progress.

SuccessMaker Internet heralds the beginning of a community of educators, students, and parents dedicated to advancing the learning enabled by the SuccessMaker® curriculum. Along with its standards-based curriculum, SuccessMaker Internet features a supporting Web site where subscribers can find additional information about implementing the product and learn about activities to support the curriculum.

This document provides detailed information about system recommendations, network capacities, and Internet connection speeds. If you are purchasing a package that includes the Boxer software, please also refer to the *Boxer Math Systems Specifications* found at http://www.ncslearn.com/pdfs/DYN_Boxp.pdf.

The system recommendations contained in this document are subject to change at any time due to hardware and software changes beyond the control of NCS Learn. Changes may include, but are not limited to, operating systems and hardware technologies dictated by the market.

Using This Guide

The following style convention is used in this guide. It alerts you to a special type of information.

Indicates specific information that, if overlooked, could affect system performance.

System Recommendations

Windows-Based Student Station

Component	Minimum Requirements	Recommendations
Operating System	Specified below	Specified below
Windows® 95/98/98SE/ME/2000 **NOTE:** Windows 95 requires Service Pack 1.	• Processor: Pentium® II @ 233 MHz (or faster) • Memory: 64 MB	• Processor: Pentium III @ 500 MHz (or faster) • Memory: 64 MB **NOTE:** For stations using Windows 2000, 128 MB of memory recommended.
Monitor Resolution	800 x 600 with thousands of colors	800 x 600 with thousands of colors
Hard Disk Drive Space	100 MB (minimum) of free disk space	100 MB (minimum) of free disk space
	NOTE: Free disk space is the space remaining on the disk after the operating system and all third-party applications have been installed.	
CD-ROM	One 4x (or faster) CD-ROM drive at each station	One 8x (or faster) CD-ROM drive at each station
Multimedia Software	QuickTime® 4.1.2 or later required at all stations	QuickTime 4.1.2 or later required at all stations
Audio	Any Creative Labs or 100%-compatible sound card, including Sound Blaster® 16 (or 32), PCI 64, and 16-bit ViBRA® series products	Any Creative Labs or 100%-compatible sound card, including Sound Blaster 16 (or 32), PCI 64, and 16-bit ViBRA series products
Network Protocols	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)
Internet Connection	See "Internet Connection Speeds" on page 8.	See "Internet Connection Speeds" on page 8.
Internet Browser	One of the following: • Netscape Navigator™ or Netscape Communicator™ 4.74 or later **NOTE:** For Windows 2000 stations using Netscape Navigator, version 4.78 is required. **NOTE:** Netscape 6.0 is not supported. • Microsoft® Internet Explorer 5.0 or 5.5 with Service Pack 1 **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 2 and Internet Explorer 6.0 are not supported.	One of the following: • Netscape Navigator or Netscape Communicator 4.74 or later **NOTE:** For Windows 2000 stations using Netscape Navigator, version 4.78 is required. **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 or 5.5 with Service Pack 1 **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 2 and Internet Explorer 6.0 are not supported. **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 1 provides optimum performance.
Special Software/Equipment	• Desktop protection software optional • Antivirus software optional	• Desktop protection software recommended • Antivirus software recommended

Windows-Based Teacher/Administrator Station

Component	Minimum Requirements	Recommendations
Operating System	Specified below	Specified below
Windows 95/98/98SE/ME/2000 **NOTE:** Windows 95 requires Service Pack 1.	• Processor: Pentium II @ 233 MHz (or faster) • Memory: 64 MB	• Processor: Pentium III @ 500 MHz (or faster) • Memory: 64 MB **NOTE:** For stations using Windows 2000, 128 MB of memory recommended.
Monitor Resolution	800 x 600 with thousands of colors	800 x 600 with thousands of colors
Hard Disk Drive Space	100 MB (minimum) of free disk space	100 MB (minimum) of free disk space
	NOTE: Free disk space is the space remaining on the disk after the operating system and all third-party applications have been installed.	
CD-ROM	One 4x (or faster) CD-ROM drive at each station	One 8x (or faster) CD-ROM drive at each station
Multimedia Software	QuickTime 4.1.2 or later required at all stations	QuickTime 4.1.2 or later required at all stations
Audio	Any Creative Labs or 100%-compatible sound card, including Sound Blaster 16 (or 32), PCI 64, and 16-bit ViBRA series products	Any Creative Labs or 100%-compatible sound card, including Sound Blaster 16 (or 32), PCI 64, and 16-bit ViBRA series products
Network Protocols	• TCP/IP and Internet access required • IP Address: Fixed or dynamic (DHCP)	• TCP/IP and Internet access required • IP Address: Fixed or dynamic (DHCP)
Internet Connection	See "Internet Connection Speeds" on page 8.	See "Internet Connection Speeds" on page 8.
Internet Browser	One of the following: • Netscape Navigator or Netscape Communicator 4.74 or later **NOTE:** For Windows 2000 stations using Netscape Navigator, version 4.78 is required. **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 or 5.5 with Service Pack 1 **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 2 and Internet Explorer 6.0 are not supported.	One of the following: • Netscape Navigator or Netscape Communicator 4.74 or later **NOTE:** For Windows 2000 stations using Netscape Navigator, version 4.78 is required. • Microsoft Internet Explorer 5.0 or 5.5 with Service Pack 1 **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 2 and Internet Explorer 6.0 are not supported. **NOTE:** Microsoft Internet Explorer 5.5 with Service Pack 1 provides optimum performance.
Printer	Any inkjet or laser printer supported by the operating system	Any inkjet or laser printer supported by the operating system
Special Software/Equipment	• Desktop protection software optional • Antivirus software optional • Adobe® Acrobat® Reader® 4.0 or later for viewing SuccessMaker Internet electronic documentation	• Desktop protection software recommended • Antivirus software recommended • Adobe Acrobat Reader 5.0 or later for viewing SuccessMaker Internet electronic documentation

Macintosh Student Station

Component	Minimum Requirements	Recommendations
Operating System	Specified below	Specified below
Mac® OS 8.6 to OS 9.2.1 **NOTE:** OS 9.1 requires Open Transport 2.7.6 and CarbonLib 1.3.1	• Processor: G3 @ 233 MHz (or faster) • Memory: 64 MB • Virtual memory enabled and set to 128 MB	• Processor: G3 @ 400 MHz (or faster) • Memory: 128 MB • Virtual memory enabled
Monitor Resolution	800 x 600 with 256 colors	800 x 600 with thousands of colors
Hard Disk Drive Space	150 MB (minimum) of free disk space	150 MB (minimum) of free disk space
	NOTE: Free disk space is the space remaining on the disk after the operating system and all third-party applications have been installed.	
CD-ROM	One 4x (or faster) CD-ROM drive at each station	One 8x (or faster) CD-ROM drive at each station
Multimedia Software	QuickTime 4.1.2 or later required at all stations	QuickTime 4.1.2 or later required at all stations
Audio	Built in	Built in
Network Protocols	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)
Internet Connection	See "Internet Connection Speeds" on page 8.	See "Internet Connection Speeds" on page 8.
Internet Browser	One of the following: • Netscape Navigator 4.74 or later **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 with Macintosh Runtime for Java 2.2.4 or later installed	One of the following: • Netscape Navigator 4.74 or later **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 with Macintosh Runtime for Java 2.2.4 or later installed
Special Software/Equipment	• Desktop protection software optional • Antivirus software optional	• Desktop protection software recommended • Antivirus software recommended

Macintosh Teacher/Administrator Station

Component	Minimum Requirements	Recommendations
Operating System	Specified below	Specified below
Mac® OS 8.6 to OS 9.2.1 **NOTE:** OS 9.1 requires Open Transport 2.7.6 and CarbonLib 1.3.1	• Processor: G3 @ 233 MHz (or faster) • Memory: 64 MB • Virtual memory enabled and set to 128 MB	• Processor: G3 @ 400 MHz (or faster) • Memory: 128 MB • Virtual memory enabled
Monitor Resolution	800 x 600 with 256 colors	800 x 600 with thousands of colors
Hard Disk Drive Space	150 MB (minimum) of free disk space	150 MB (minimum) of free disk space
	NOTE: Free disk space is the space remaining on the disk after the operating system and all third-party applications have been installed.	
CD-ROM	One 4x (or faster) CD-ROM drive at each station	One 8x (or faster) CD-ROM drive at each station
Multimedia Software	QuickTime 4.1.2 or later required at all stations	QuickTime 4.1.2 or later required at all stations
Audio	Built in	Built in
Network Protocols	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)	• TCP/IP and Internet access required • IP Address: fixed or dynamic (DHCP)
Internet Connection	See "Internet Connection Speeds" on page 8.	See "Internet Connection Speeds" on page 8.
Internet Browser	One of the following: • Netscape Navigator 4.74 or later **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 with Macintosh Runtime for Java 2.2.4 or later installed	One of the following: • Netscape Navigator 4.74 or later **NOTE:** Netscape 6.0 is not supported. • Microsoft Internet Explorer 5.0 with Macintosh Runtime for Java 2.2.4 or later installed
Printer	Any inkjet or laser printer supported by the operating system	Any inkjet or laser printer supported by the operating system
Special Software/Equipment	• Desktop protection software optional • Antivirus software optional • Adobe Acrobat Reader 4.0 or later for viewing SuccessMaker Internet electronic documentation	• Desktop protection software recommended • Antivirus software recommended • Adobe Acrobat Reader 5.0 or later for viewing SuccessMaker Internet electronic documentation

Intel-Based Content Server

Component	Minimum Requirements	Recommendations
Network Operating System	Specified below	Specified below
• Novell NetWare 4x (Windows clients only) **NOTE:** Novell NetWare 4.2 with Service Pack 9 recommended.	• Processor: Pentium II @ 233 MHz • Memory: 128 MB	• Processor: Pentium III @ 500 MHz (or faster) • Memory: 256 MB
• NetWare 5x (Windows clients only) **NOTE:** Novell NetWare 5.1 with Service Pack 3 recommended.	• Processor: Pentium II @ 233 MHz • Memory: 256 MB	• Processor: Pentium III @ 450 MHz (or faster) • Memory: 256 MB
• Microsoft Windows NT® Server 4.0 (Windows and Macintosh clients) **NOTE:** Service Pack 6a recommended. **NOTE:** For Macintosh clients, the Windows NT server must be running AppleShare® services.	• Processor: Pentium II @ 233 MHz • Memory: 128 MB	• Processor: Pentium III @ 500 MHz (or faster) • Memory: 256 MB
• Microsoft Windows 2000 Server (Windows and Macintosh clients) **NOTE:** Macintosh clients must be running Mac OS 9.x or earlier. **NOTE:** For Macintosh clients, the Windows 2000 server must be running AppleShare® services.	• Processor: Pentium III @ 450 MHz • Memory: 256 MB	• Processor: Pentium III @ 500 MHz • Memory: 256 MB
Network Hardware	Ethernet **NOTE:** For details, see "Network Capacities" on page 7.	Ethernet **NOTE:** For details, see "Network Capacities" on page 7.
Hard Disk Drive Space	8 GB of free space available on a single volume	8 GB of free space available on a single volume
Hard Drive Subsystem	SCSI drive and controller	SCSI drive and controller
CD-ROM Drive	One 4x (or faster) CD-ROM drive per system	One 8x (or faster) CD-ROM drive per system
Backup Device	One backup device and backup software per system, installed either on the server or on a workstation	One backup device and backup software per system, installed either on the server or on a workstation
Uninterruptible Power Supply	One per system	One per system

Network Capacities

NCS Learn recommends using 10/100-Mbps Switched Ethernet for all new server-based network installations, with a *maximum of 15 devices per switch port*.

Windows NT Server 4.0 Network with Windows and/or Macintosh Clients

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Stations Supported
10/100 Switched	Pentium II @ 233 MHz	2	2	240
100BaseTX	Pentium @ 233 MHz	None	2	120
10BaseT	Pentium @ 133 MHz	None	2	30

Windows 2000 Server Network with Windows and/or Macintosh Clients

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Stations Supported
10/100 Switched	Pentium III @ 450 MHz	2	2	240
100BaseTX	Pentium III @ 450 MHz	None	2	120

Novell NetWare 4x Network with All-Windows Clients

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Stations Supported
10/100 Switched	Pentium II @ 233 MHz	2	2	240
100BaseTX	Pentium II @ 233 MHz	None	2	240
100BaseTX	Pentium @ 133 MHz	None	1	120
10BaseT	Pentium @ 133 MHz	None	2	30

Novell NetWare 5x Network with All-Windows Clients

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Stations Supported
10/100 Switched	Pentium III @ 450 MHz	2	2	240
10/100 Switched	Pentium III @ 450 MHz	1	1	120
100BaseTX	Pentium III @ 450 MHz	None	1	120
10BaseT	Pentium II @ 233 MHz	None	2	30

Internet Connection Speeds

Internet Service Providers (ISPs) must support the use of a standard, non-customized Web browser. Some ISPs offer free Internet services that are supported by advertising banners. These banners may require customized browsers or other delivery technologies that alter standard Web pages. This customization may cause unreliable operation of SuccessMaker Internet. Verify that your ISP is compatible with a standard, non-custom Web browser, i.e., a Microsoft or Netscape browser.

WAN-Link Configuration

Connection Speed	Maximum Number of Concurrent Users*
T1	75
DSL 1.5/128	20
ISDN/Dual Channel	10
56K Frame Relay	10

* These numbers assume SuccessMaker Internet traffic only. The maximum number of users may vary depending on the amount of traffic on the connection and the latency of the connection.

Standalone Configuration (Single Station)

Connection Speed*	Maximum Number of Concurrent Users
56K Modem	1

* Performance of the SuccessMaker Internet product may vary depending on the actual connection speed.